Operator's Manual

Finishing Mower 48”, 60” & 72”

FM48

FM60

FM72

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Take note! This safety alert symbol found throughout this manual is used to call your attention to instructions involving your personal safety and the safety of others. Failure to follow these instructions can result in injury or death.

This symbol means:
ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!

Signal Words

Note the use of the signal words DANGER, WARNING and CAUTION with the safety messages. The appropriate signal words for each has been selected using the following guidelines:

DANGER: indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING: indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

1 - GENERAL INFORMATION 4
1.01 - General 4
1.02 - Model and Serial Number ID 4
1.03 - Assembly Instructions 5
2 - SAFETY PRECAUTIONS 7
2.01 - Preparation 7
2.02 - Starting and Stopping 8
2.03 - Messages and Signs 8
3 - OPERATION 10
3.01 - Operational Safety 10
3.02 - Set Up 12
3.03 - Cutting Height Adjustment 13
3.04 - Pre-Operational Check 13
3.05 - Attaching to the Tractor 14
3.06 - Start Up 15
3.07 - Working Speed 16
3.08 - Operating Techniques 16
3.09 - Uneven Terrain 18
3.10 - Removing Mower from the Tractor 18
4 - MAINTENANCE 19
4.01 - Maintenance Safety 19
4.02 - Service 20
4.03 - Blade Maintenance 21
4.04 - Belt Tension 23
4.05 - Belt Replacement 24
4.06 - Driveline 25
4.07 - Transport 26
5 - REPAIR PROCEDURES 29
5.01 - Gearbox 29
5.02 - Blade Spindle 29
5.03 - Suggested Spare Parts 29
5.04 - Storage 30
6 - TROUBLESHOOTING 31
7 - PRE-DELIVERY CHECKLIST 32
8 - PARTS MANUAL 33

1 - GENERAL INFORMATION

Thank you and congratulations for having chosen our implement.
Your new grooming mower is a technologically advanced machine constructed of high quality sturdy components that will fulfill your working expectations.
Read this manual carefully. It will instruct you on how to operate and service your mower safely and correctly. Failure to do so could result in personal injury and/or in equipment damage.

1.01 - General

CAUTION: All hardware is metric. Only metric tools should be used. Other tools that do not fit properly can slip and cause injury.

CAUTION: Right hand and left hand sides of the implement are determined by facing in the direction the implement will travel when going forward (see fig. 4).

1.02 - Model and Serial Number ID

Attached to the frame is an ID plate showing the model and the serial number. Record your implement model and serial number in the space provided below. Your dealer needs this information to give you prompt, efficient service when you order parts.

Model #: _____

Serial #: _____

Warranty does not cover the following:

1. Cleaning, transporting, mailing and service call charges.
2. Normal wear items such as belts, blades, bearings, drivelines, shear pins, slip clutches, etc.
3. Depreciation or damage caused by normal wear, accidents, improper maintenance, improper protection or improper use.
4. The use of non original spare parts and accessories.

Your Authorized Company Dealer has genuine parts in stock. Only these approved replacement parts should be used.
This limited warranty covers defective material and workmanship. The cost of normal maintenance or repairs for accidents or improper use and related labor will be borne by the owner.

1.03 - Assembly Instructions

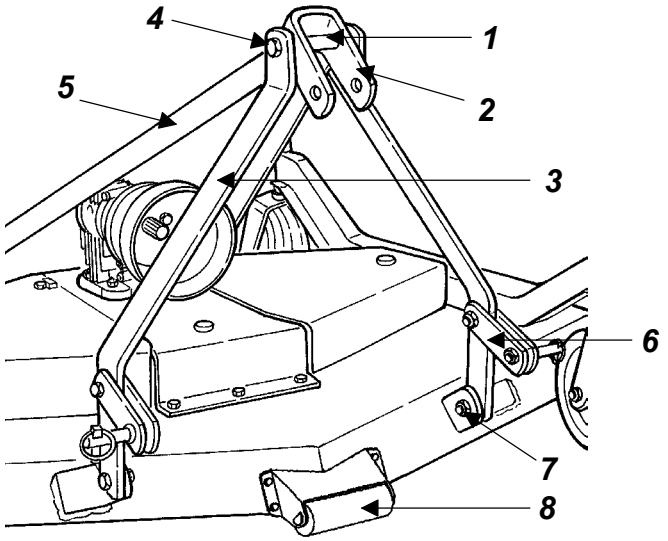


Fig. 2
1. inner spacer
2. top hitch plate
3. top hitch support
4. bolt
5. top hitch arm
6. lower hitch arm
7. front support plate
8. front roller

1. Unbolt the wheel arms and discard the mounting bracket.
2. Separate the wheel arms and remove the hardware bag secured between them.
3. **Important: Remove the belt shields to inspect around the belt area and under the gearbox central plate to be sure the area is clear of packing material such as blocks of wood, paper, etc.**
4. Bolt the wheel arm assemblies to the mower deck with the flat washer and lock nuts. There is no difference between left/right or front/rear. Be sure both assemblies are securely mounted.
5. Assemble each wheel to the yokes with one 14x140 mm. bolt and one inner bushing. Tighten down snugly. The wheel should turn freely but have no side to side movement.
6. Replace the belt shields.
7. Bolt up the top hitch arms to the **inside** of the rear support plates on the rear of the mower **(see fig. 3)**.

8. Bolt up the top hitch supports to the **outside** of the front support plates welded to the front of the deck **(see fig. 2)**.
9. Bolt up the top hitch plate with the 16x150 mm. bolt. It should be bolted as follows: bolt, top hitch support, top hitch arm, top hitch plate, spacer, top hitch arm, top hitch support, lock nut. **Tighten the lock nut down securely, the top hitch plate should be able to swivel 360° (see fig. 2).**
10. Install the lower hitch arms onto the top hitch supports. Tighten the bolts holding the lower hitch arms. Be sure they are able to swivel **(see fig. 2)**.
11. Grease wheel arms, and spindles. Check the gearbox for oil. It should be approximately $^1/_2$ filled.

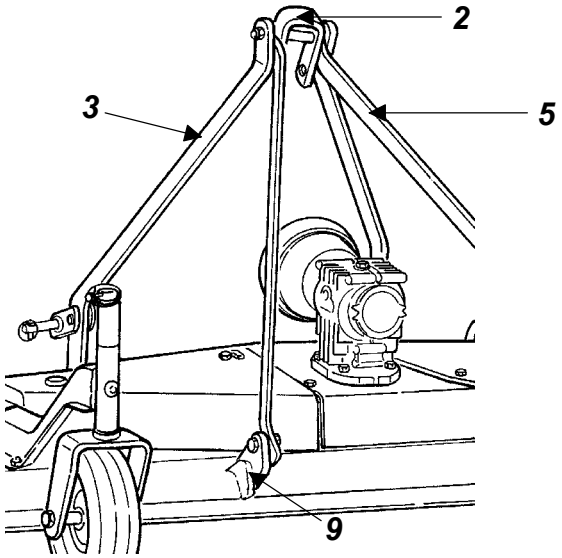


Fig. 3
2. top hitch plate
3. top hitch support
5. top hitch arm
9. rear support plate

2 - SAFETY PRECAUTIONS

Safety is the primary concern in the design and manufacture of our products. Unfortunately our efforts to provide safe equipment can be wiped out by a single careless act of an operator.
In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.
It is the operator's responsibility to read and understand all safety and operating instructions in the manual and to follow these.
Allow only properly trained personnel to operate the mower. Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. It is the mower owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating, reads and understands the operator's manuals and is instructed in safe and proper use.

2.01 - Preparation

1. Before operating equipment read and understand the operator's manual and the safety signs **(see fig. 4)**.
2. Thoroughly inspect the implement before initial operation to assure that all packaging materials, i.e., wires, bands, and tape have been removed.
3. Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining and/or repairing the implement.
4. Operate the mower only with a tractor equipped with an approved Roll-Over-Protective-System (ROPS). Always wear your seat belt. Serious injury or even death could result from falling off the tractor.
5. Clear area to be cut of stones, branches or other debris that might be thrown, causing injury or damage.
6. Operate only in daylight or good artificial light.
7. Ensure mower is properly mounted, adjusted and in good operating condition.
8. Ensure that all safety shielding and safety signs are properly installed and in good condition.

2.02 - Starting and Stopping

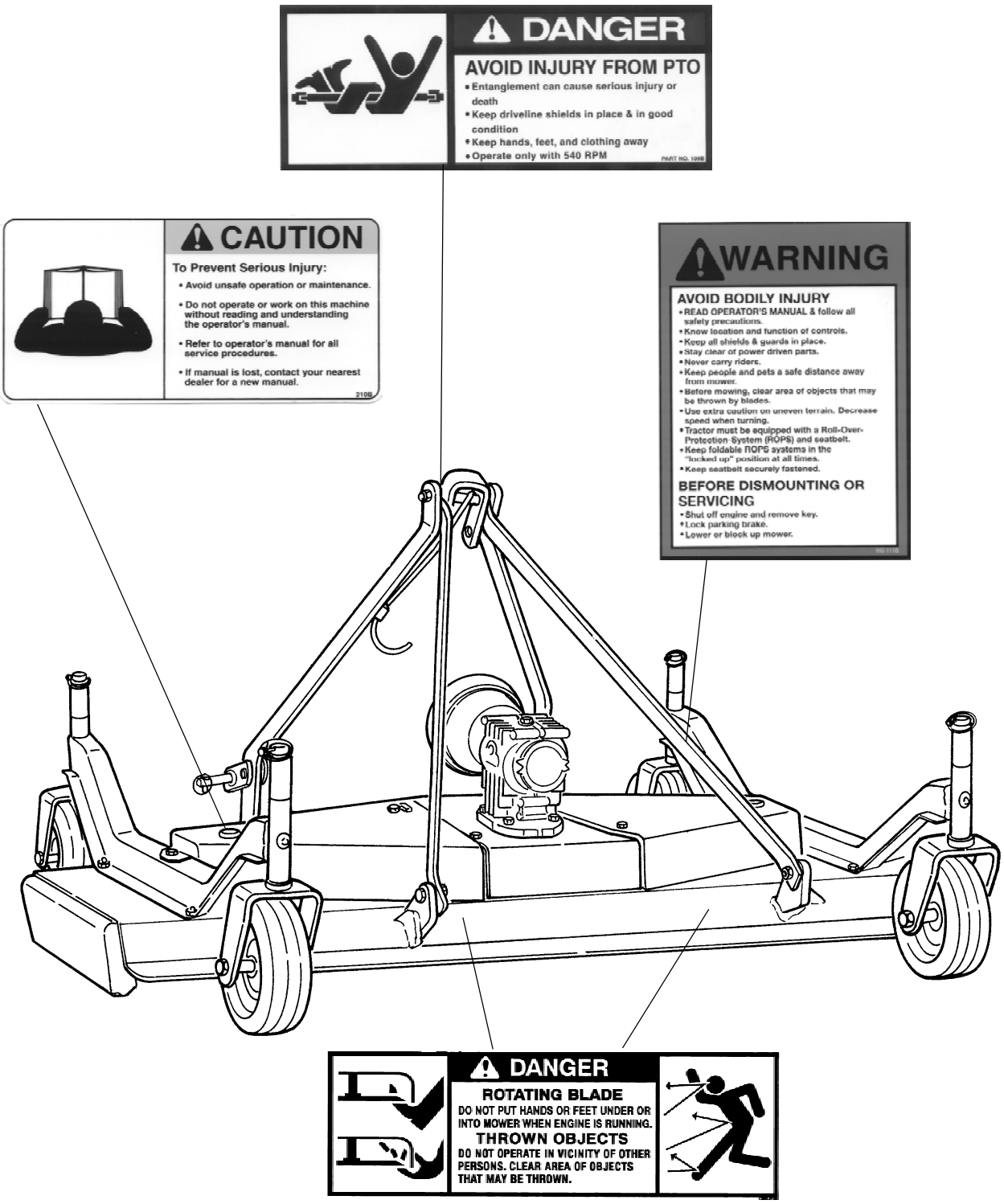
1. Be sure that no one is near the machine prior to engaging or while the machine is working.
2. Be sure the tractor is in "Neutral" before starting engine.
3. Mower operating power is supplied from tractor PTO. Refer to your tractor manual for PTO engagement and disengagement instructions. Always operate PTO at 540 rpm. Know how to stop the tractor and mower quickly in case of an emergency.
4. When engaging PTO, the engine rpm should always be low. Once engaged and ready to start cutting, raise PTO speed to 540 rpm and maintain throughout cutting operation.
5. Check the tractor master shield over the PTO stub shaft. Make sure it is in good condition and fastened securely to the tractor. Purchase a new shield if old shield is damaged or missing.
6. After striking an obstacle, disengage the PTO, shut the tractor down and thoroughly inspect for damage before restarting.
7. Never engage the PTO until the mower is in the down position and resting on the ground. Never raise the mower until all blades have come to a complete stop.

2.03 - Messages and Signs

1. Read and adhere to all safety and operating decals on this machine **(see fig. 4)**.
2. Before dismounting tractor: allow moving parts to stop, stop engine, set brake and remove the key of unattended equipment.
3. Keep away from rotating blades and driveline.
4. Keep guards and shields in place and in good condition.
5. Do not mow with bystanders in area.
6. Allow no riders on tractor or mower.
7. Allow moving parts to stop before repair.
8. Securely support mower before working underneath.

Additional warning and operating decals are available at no extra charge. Please specify model and serial number when ordering.

Fig. 4 - Safety Decals; Replace immediately if damaged.


DANGER
AVOID INJURY FROM PTO
• Entanglement can cause serious injury or death
• Keep driveline shields in place & in good condition
• Keep hands, feet, and clothing away
• Operate only with 540 RPM
CAUTION
To Prevent Serious Injury:
• Avoid unsafe operation or maintenance.
• Do not operate or work on this machine without reading and understanding the operator's manual.
• Refer to operator's manual for all service procedures.
• If manual is lost, contact your nearest dealer for a new manual.
WARNING
AVOID BODILY INJURY
• READ OPERATOR'S MANUAL & follow all safety precautions.
• Know location and function of controls.
• Keep all shields & guards in place.
• Stay clear of power driven parts.
• Never carry riders.
• Keep people and pets a safe distance away from mower.
• Before mowing, clear area of objects that may be thrown by blades.
• Use extra caution on uneven terrain. Decrease speed when turning.
• Tractor must be equipped with a Roll-Over-Protection System (ROPS) and seatbelt.
• Keep foldable ROPS systems in the "locked up" position at all times.
• Keep seatbelt securely fastened.
BEFORE DISMOUNTING OR SERVICING
• Shut off engine and remove key.
• Lock parking brake.
• Lower or block up mower.
DANGER
ROTATING BLADE
DO NOT PUT HANDS OR FEET UNDER OR INTO MOWER WHEN ENGINE IS RUNNING.
THROWN OBJECTS
DO NOT OPERATE IN VICINITY OF OTHER PERSONS. CLEAR AREA OF OBJECTS THAT MAY BE THROWN.

3 - OPERATION

You have purchased a three spindle mower designed especially for the mowing of grassy areas where a highly professional cut is required without wasting time.
This mower is perfect for the maintenance of parks, private lawns, industrial parks, airports, hospital grounds, schools, highways, golf courses, sport complexes, etc. The grooming mower, for tractors up to 30 HP, come in working widths of 4', 5' and 6'. The mower can be either tractor front or rear mounted and is available in rear discharge. On your mower, the tractor PTO transmits its power through a driveline to a speed multiplier gearbox. A pulley is attached to the pinion gear shaft of the gearbox which, via high resistance belts, transmits power to pulleys coupled to the three individual spindle shafts. Blades are secured to these shafts which turn at a high blade tip speed to cut the grass.
Our grooming mower comes equipped with 4 swivel wheels. Aside from regulating the cutting height, the wheels are set in such a way as to allow the mower to follow the contour of the terrain and give a precise level cut even in undulating conditions.

3.01 - Operational Safety

CAUTION: Our mowers are designed considering safety as the most important aspect and are the safest available in today's market. Unfortunately, human carelessness can override the safety features built into our machines. Injury prevention and work safety, aside from the features on our mowers, is very much due to the responsible use of the equipment. It must always be operated prudently following with great care, the safety instructions laid out in this manual.

1. The use of this equipment is subject to certain hazards which cannot be prevented by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using.
2. Do not operate the tractor and mower when you are tired, sick or when using medication.
3. Keep all helpers and bystanders at least several feet from a rotary mower. Only properly trained people should operate this machine.
4. The majority of accidents involve entanglements on the driveline, injury of bystanders by objects thrown by the rotating blades, and operators being knocked off the tractor by low hanging limbs and then being run over by the mower. Accidents are most likely to occur with machines that are loaned or

rented to someone who has not read the operator's manual and is not familiar with a rotary mower.

5. Always stop the tractor, set brake, shut off the tractor engine, remove the ignition key, lower implement to the ground and allow mower blades to come to a complete stop before dismounting tractor. Never leave equipment unattended with the tractor running.
6. Never place hands or feet under mower with tractor engine running or before you are sure all motion has stopped. Stay clear of all moving parts.
7. Do not allow riders on the mower or tractor at any time. There is no safe place for riders.
8. Do not operate unless all personnel, livestock and pets are several feet away to prevent injury by thrown objects.
9. Before backing up, disengage the mower and look behind carefully.
10. Install and secure all guards and shields before starting or operating.
11. Keep hands, feet, hair and clothing away from moving parts.
12. This rotary mower is designed for use only on tractors with 540 rpm power take off.
13. Never operate tractor and mower under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by the rotating blades.
14. The rotating parts of this machine have been designed and tested for rugged use. However, they could fail upon impact with heavy, solid objects such as steel guard rails and concrete abutments. Such impact could cause the broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the cutting blades to contact such obstacles.
15. Frequently check mower blades. They should be sharp, free of nicks and cracks and securely fastened.
16. Stop mower immediately upon striking an obstruction. Turn engine off, remove key, inspect and repair any damage before resuming operation.
17. Stay alert for holes, rocks and roots in the terrain and other hidden hazards. Keep away from drop-offs.
18. Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.
19. Reduce speed on slopes and sharp turns to minimize tipping or loss of control. Be careful when changing directions on slopes. Do not start or stop suddenly on slopes. Avoid operation on steep slopes.
20. When using a unit, a minimum 20% of tractor and equipment weight must be on tractor front wheels. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a front end loader, front wheel weights, ballast in tires or front tractor weights. When attaining a minimum 20% of tractor and equipment weight on the front wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. Do not guess or estimate!

21. Inspect the entire machine periodically[1]. Look for loose fasteners, worn or broken parts, and leaky or loose fittings.
22. Use only the driveline supplied with the mower. Do not use it if it is missing any shield or safety protection.
23. Pass diagonally through sharp dips and avoid sharp drops to prevent "hanging up" tractor and mower.
24. Avoid sudden starts and stops while traveling up or downhill.
25. Always cut down slopes; never across the face. Avoid operation on steep slopes. Slow down on sharp turns and slopes to prevent tipping and or loss of control.

3.02 - Set Up

Notice to dealer: Pre-delivery setup and service including lubrication is the responsibility of the authorized dealer. It is up to him to assure that the machine is in perfect condition and ready to be used. It is his responsibility to ensure that the customer is aware of all safety aspects and operational procedures for the mower. He must also fill out the Pre-Delivery Checklist[2] prior to delivering the mower.

CAUTION: Stand clear of bands when cutting as they could be under sufficient tension to cause them to fly loose. Take care in removing bands and wire, they often have extremely sharp edges and cut very easily.

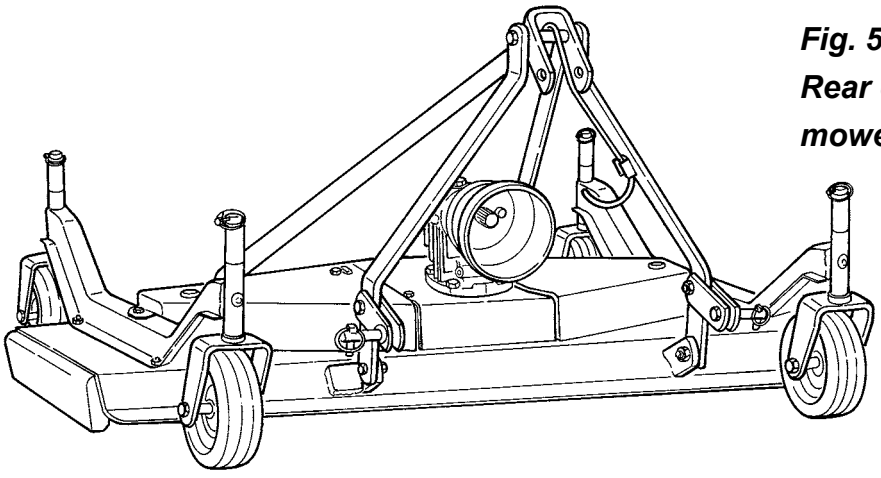


Fig. 5
Rear discharge grooming mower, front mounted.

As mentioned above, all our grooming mowers may be either tractor front or rear mounted. To change our mowers from front mount to rear, or vice versa, it can easily be done at our authorized dealerships. This is accomplished by simply turning the three point hitch and the gearbox 180 degrees **(see fig. 5 & 6)**.

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1 See chapter 4 - Maintenance.
2 See chapter 7 - Pre-Delivery Checklist.

3.03 - Cutting Height Adjustment

WARNING: Keep hands and feet away from moving blades.
Be sure tractor engine is off, parking brake is locked, and key is removed before making any adjustments.
Never rely on the tractor lift system. Install blocks or stands under the mower deck to prevent it from falling.

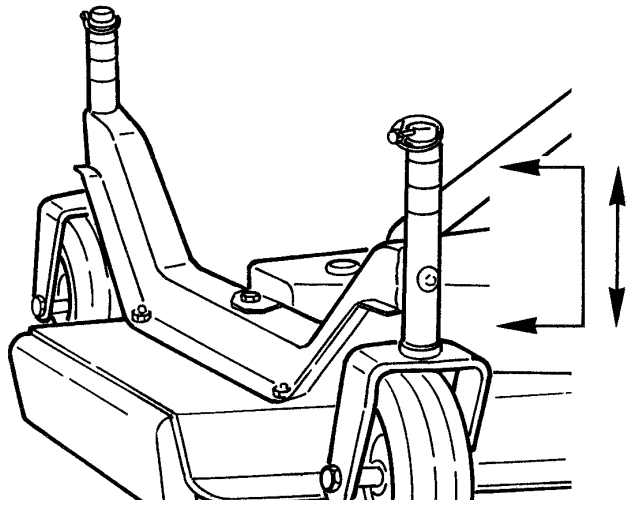

Fig. 7
The cutting height is adjusted by moving the height adjustment spacers on the wheel yokes above or below the wheel arm.

The cutting height is the distance from the blades to the ground. The cutting height is adjusted by **moving the spacers on the wheel yokes**. Placing spacers between the wheel arm and the wheel yoke raises the cutting height by the size of the spacer. Removing the spacers, lowers it by the same height **(see fig. 7)**.
Be sure all wheel arms are adjusted equally. This is the only way to ensure a completely uniform cut.
IMPORTANT: Very low cutting heights should be avoided. Damaging shock loads occur when the blades strike the ground repeatedly. This can cause damage to the mower.
Cutting lower than 2" under most circumstances should be avoided.
The cutting height is adjustable from 1" to 4".
A front anti-scalp roller is also available upon request. This accessory is particularly helpful when cutting over uneven terrain.

3.04 - Pre-Operational Check

Check each of the following, carefully, prior to engaging the equipment:

1. The spindle bearings have been greased.
2. The belts for proper tension.
3. The oil in the gearbox.
4. The driveline cross & bearings have been greased.
5. No wrappings or foreign objects are around the blades, belts or driveline.
6. The blades are properly installed and the blade bolts properly torqued[3].
7. All hardware is tight.
8. The tractor, to ensure correct direction of PTO and rpm speed.
9. All safety shields and guards are in place and tightly attached.
10. No people or animals are in the work area.
11. When working, make sure the tractor hitch is in the "float" position, in order to allow the mower to follow the contour of the ground.

DANGER: Stay clear of rotating driveline. Entanglement in rotating driveline can cause serious injury. Disengage PTO, engage parking brake or place transmission in "Park", shut off the tractor and remove the key before working around hitch, attaching or detaching driveline, making adjustments, servicing or cleaning the machine.

3.05 - Attaching to the Tractor

Only use this model implement with tractors in the correct power range[4]. **Never use this mower with tractors over 30 HP.**

CAUTION: Check the tractor PTO rpm to ensure it is set at 540 and turns clockwise.

CAUTION: Always ensure that the tractor tire pressure is correct according to the tractor operator's manual.

DANGER: Failure to ensure a secure coupling of the implement to the tractor can cause injury and damage to the implement or tractor.

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[3] See table 1, page 28.
[4] See table 2, page 28.

To attach the mower to the tractor do the following:

1. Back the tractor up to the mower in order to slip the tractor hitch arms over the hitch pins welded to the mower hitch arms. **Turn off the tractor engine.** Secure them in place with the lynch pins.
2. Adjust the tractor sway blocks or chains to remove all side movement.
3. Attach the top link. Adjust tractor top link to allow the mower to follow the ground contour and yet remain as level as possible when raised to transport position.
4. Install the shielded driveline to the tractor by first lining up the splines and depressing the snap pin. Push the yoke onto the PTO shaft as far as it will go. Release the pin and pull back slowly until the pin clicks in place. Repeat this operation on the implement end.
5. Attach the driveline chains to the tractor and to the mower to keep the driveline protection from turning. The chains should not be too tight.

3.06 - Startup

DANGER: The mower must always be lowered to the ground before starting tractor engine or engaging PTO lever.

Lower mower to the ground with the tractor rock shaft control lever. With the engine idling, slowly engage the PTO drive. Move the throttle lever until the PTO speed indicated on the mower is obtained.
The mower is set for a PTO speed of 540 rpm.
Shift the transmission to a slow speed gear and start forward, increase the ground speed by shifting upward until the desired speed is obtained. Do not mow in reverse unless absolutely necessary and only after careful observation of the area behind the mower.

CAUTION: Do not operate this mower at a PTO speed or direction of rotation other than that shown on the mower. Serious damage can occur to the machine and/or the operator.

Before starting to mow, never forget that the **operator is responsible** for the following:

1. Safe and correct driving of the tractor and mower.
2. To learn precise safe operating procedures for both the tractor and the mower.
3. To ensure all maintenance and lubrication has been performed on the mower.
4. To have read and understood all safety aspects for the mower in the operator's manual.
5. To have read and understood all safety decals on the mower.
6. Checking the condition of the blades. Worn or damaged blades should be changed before starting[5].

[5] See section 4.03 - Blade Maintenance.

7. Checking to ensure that the cutting edge is the leading edge of the blade[6].
8. Checking that there is no wire, weed, grass or other material wrapped around blades.
9. Checking to see if front weights need to be added to the tractor in order to maintain balance.
10. Checking the tractor tires for the proper pressure in accordance with the tractor operator's manual.
11. Checking the side discharge chute (on side discharge mowers only) to ensure that it is properly in place. **Checking that the PTO shield, belt shields and all other shielding are on the machine and securely in place**.
12. Making sure the proper attire is worn. Avoiding loose fitting clothing which can become entangled. Wearing sturdy, tough-soled work shoes and protective equipment for eyes, hands, ears and head. Never operate tractor or implements in bare feet, sandals or sneakers.
13. Checking area for stones, branches and other debris that might be thrown.
14. Ensuring proper lighting is available, sunlight or good artificial lighting.

3.07 - Working Speed

The mowing speed depends on ground conditions, tractor HP, mowing height, and grass thickness. Only a test run will enable you to gauge the optimal working speed for your conditions.
Under most conditions a 3 to 8 mph ground speed is best. As a rule of thumb, and if the conditions permit, grass dispersion is increased by higher ground speeds.
In order to obtain the best cut possible, always keep the tractor rpm up to the speed indicated on the mower. When increasing or decreasing mowing ground speed, always use gear selection, not engine speed. This will maintain the constant maximum blade speed necessary for a clean cut.

3.08 - Operating Techniques

All of the following factors are important in selecting the proper forward speed:

1. Height of grass.
2. Type of grass.
3. Density of grass.
4. Type of terrain.
5. Grass condition, wet or dry.

This mower has been designed to cut grass with heights from 4" to 8". It is recommended to avoid cutting grass taller than 10".
For the best results, try cutting the grass at least once per week during growing season. Tall, dense grass should be cut at low speed, while thin medium grass can be cut at a faster ground speed. For cleaner cuts and efficient mowing, the blades must be kept sharp[7].

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[6] See section 4.03 - Blade Maintenance.
[7] See Sharpening Blades in section 4.03 - Blade Maintenance.

Always operate PTO at 540 rpm. This is necessary to maintain proper blade speed and obtain a clean cut.
Under certain conditions, tractor tires may roll some grass down and prevent it from being cut at the same height as the surrounding area. If this occurs reduce the tractor ground speed but maintain a 540 rpm engine speed. The lower ground speed will permit the grass to at least partially rebound. Under some conditions grass will not rebound enough to be cut even, resulting in an uneven appearance. In general, lower cutting height gives a more even cut with less tendency to leave tire tracks. If cut is still not satisfactory, cut the area twice.
Mow extremely tall grass twice. On the first pass use a high cutting height. On the second pass position the mower at the desired height and when practical, mow at a right angle in travel to the first pass.
Plan your pattern to travel straight forward whenever possible.
It is better to cut grass more often, than too short. Short grass deteriorates rapidly in hot weather and invites weed growth during growing season.

If at any time the mower should jam resulting in belt slippage of 2 or more seconds, raise the mower and continue for 2-3 minutes. This will allow the pulleys to cool and prolong belt life.

DANGER: The mower blades can throw objects hundreds of feet which could result in personal or property damage. Pick up all rocks and other debris before mowing. Enter new areas carefully. Cut grass higher at first, allowing mower to clear hidden objects.

CAUTION: For emergency reasons learn how to stop the tractor and mower quickly. On the grooming mowers always disengage the PTO, lock parking brake, stop engine and allow the mower blades to come to a complete stop before dismounting the tractor.

3.09 - Uneven Terrain

DANGER: Be careful of rollover when operating tractor and mower over uneven ground.

In extremely uneven terrain rear wheel weights, front tractor weights, and/or tire ballast should be used to improve stability.
When mowing over uneven terrain, observe the type of terrain and develop a safe mowing pattern. Whenever traction or stability is doubtful, first test drive over the terrain with the PTO disengaged.
Operate the mower up and down steep slopes, not across slopes, to prevent the tractor from tipping. Avoid sudden stops and starts, and slow down before changing directions on a slope.
Pass diagonally through sharp dips and avoid sharp drops to prevent hanging up the tractor and mower.
Slow down on sharp turns and slopes to prevent tipping or loss of control.
Avoid tipping the mower while cutting. Watch for holes, roots or other hidden objects. Do not cut near the edge of a gully, ditch or stream bank.

3.10 - Removing Mower from the Tractor

CAUTION: Disengage tractor PTO. Set parking brake. Stop engine and remove key from ignition. Disconnect mower driveline from tractor PTO shaft. Collapse driveline and store in appropriate place. Disconnect three point linkage and carefully drive tractor away from mower.

4 - MAINTENANCE

DANGER: Stop engine, lock parking brake and remove key before performing any service or maintenance.
Never rely on the tractor lift system. Install blocks or stands under the mower deck to prevent it from falling.
Always use personal protection devices, such as glasses or gloves when performing maintenance.
Keep fingers out of slots to prevent injury.

4.01 - Maintenance Safety

1. Good maintenance is your responsibility.
2. Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded. Use adequate light for the job at hand.
3. Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
4. Make no repair or adjustments with the tractor engine running. Before working on the machine, disengage the PTO, shut off the engine, set the brakes, and remove the ignition key.
5. Be certain all moving parts on attachment have come to a complete stop before attempting to perform maintenance.
6. Never work under equipment unless it is blocked securely.
7. Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.
8. Frequently check mower blades. They should be sharp, free of nicks and cracks and securely fastened.
9. Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.
10. When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.
11. Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
12. Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
13. After servicing, be sure all tools, parts and service equipment are removed.

14. Never replace hex bolts with less than grade five bolts unless otherwise specified, i.e., shear bolts[8].
15. Where replacement parts are necessary for periodic maintenance and servicing, genuine replacement parts must be used to restore your equipment to original specifications. The company will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
16. Unauthorized modifications to the machine may impair the function and/or safety of the machine and reduce its life. If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.

4.02 - Service

The accompanying illustrations show lubrication points. The chart gives the frequency of lubrication in hours, based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication.
Use a good quality SAE multipurpose type grease for all locations shown. Be sure to clean fittings thoroughly before using grease gun.
Use 90 wt. gear oil in gearbox.

Hourly:

1. Check the condition of mower blades for nicks or dull edges. Sharpen if necessary.
2. Replace bent or damaged blades[9].
3. Also check blades for damage after hitting an obstruction.
4. Clean foreign material from mower deck and belt area.

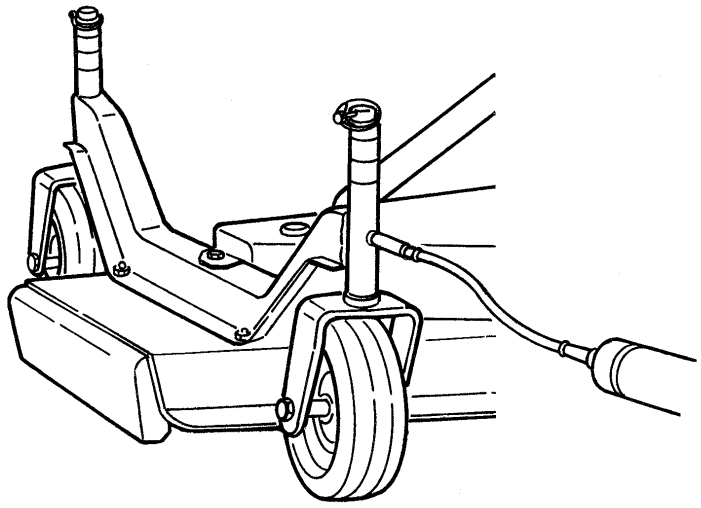


Fig. 9
Lubrication of wheel yokes.

Every 8 hours:

1. **Lubricate the driveline and the wheel yokes:** apply two or three shots of grease to the driveline cross and bearings and the telescoping shafts; apply the

[8] Refer to table 1 - Torque Specifications, for head identification marking.
[9] See section 4.03 - Blade Maintenance.

same amount to the wheel arm grease fittings **(see fig. 9)**. See the driveline manufacturer operator's manual for further information on the driveline.

2. **Gearbox oil level:** check gearbox oil level, it should be between $^1/_2$ and $^2/_3$ full. If needed add either SAE 90 wt. or SAE 140 wt. gear oil.

Every 25 hours: check hardware tightness; mower vibrations can loosen bolts[10]. Check tightness of the hardware periodically, using this table as a guide.

Every 50 hours:

1. Lubricate the three spindles with two or three shots of multipurpose grease **(see fig. 10)**. The top grease fittings are easily accessible from the top of the deck by simply removing the plastic dust guards.
2. Check belt tension[11].

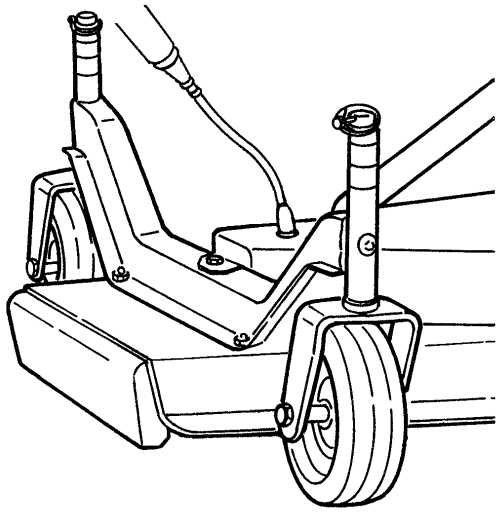


Fig. 10
Lubrication of the spindle shafts easily accessible from the top of the deck.

4.03 - Blade Maintenance

WARNING: To avoid possible injury always wear proper eye and hand protection when servicing mower blade.

In order for the mower to work properly and to always obtain a precision cut with lower HP requirements thus keeping cost down, proper blade maintenance is important.
Blades must be kept sharp, at their original length and corners maintained. A blade must be replaced if, due to wear or damage, its original shape has been distorted.

[10] See table 1, page 28.
[11] See section 4.04 - Belt Tension.

Mower's spindle assembly.

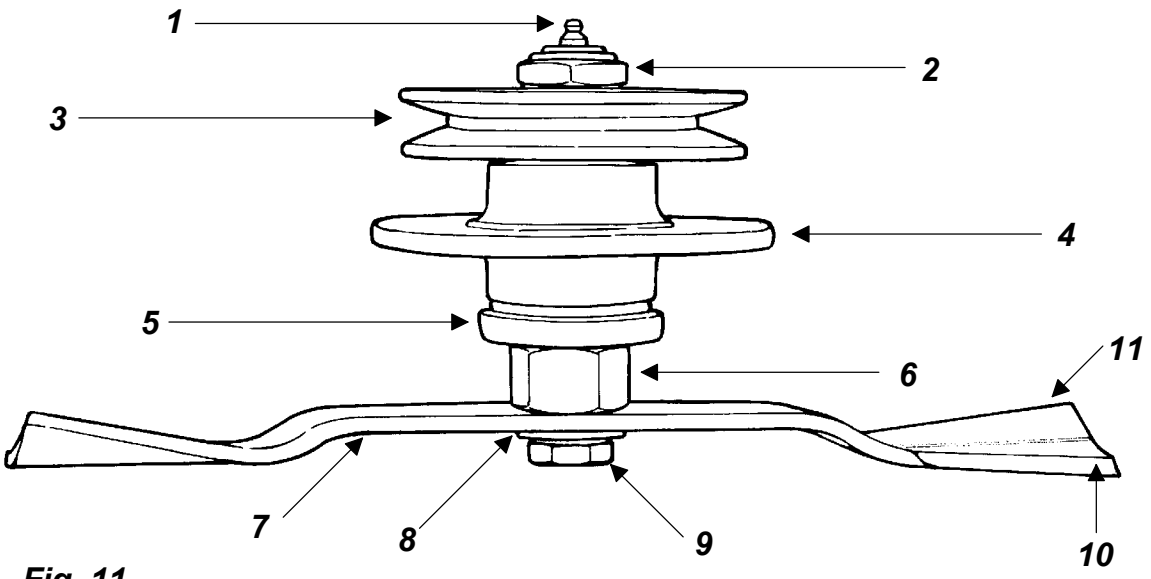


Fig. 11

1. grease fitting
2. hexagonal nut
3. pulley
4. rotor support
5. cover
6. shaft
7. blade
8. cup washer
9. blade bolt
10. cutting edge close to ground
11. lift wing

Removing or installing blades

If the mower blades need to be removed, do the following:

1. The blade turns in a **counter clockwise** direction when viewed from the bottom of the deck. The cutting edge must be towards the direction of rotation. The lift wing of the blades is closest to the deck and the cutting edge away from it **(see fig. 11)**.
2. Install the cup washer **(see fig. 11)** over the blade bolt and secure the blade in place as described above.
3. With a wrench, block the spindle and tighten the bolt to 103 lb.ft. **(see fig. 12)**.
4. To remove the blades reverse the procedure.

WARNING: Do not substitute blades or any bolt for the blade retaining bolt. Company blades and blade retaining bolts are specially made for this application. Using non original parts can effect the quality of cut and may also cause damage to the mower.

DANGER: Proper torque must be used when tightening the blade retaining bolt. If these safety precautions are not followed, the blade could come off during operation and be thrown hundreds of feet from the mower.

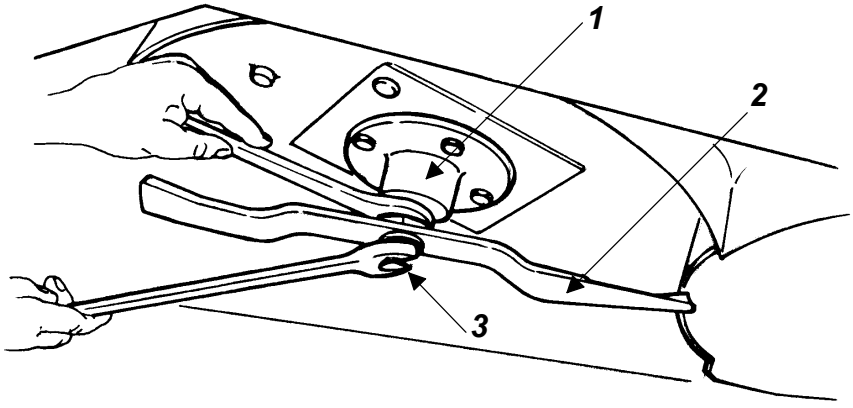


Fig. 12
1. spindle
2. blade
3. blade bolt

Sharpening Blades
Blade sharpening is extremely important in order to get the best cutting results. Sharp blades permit a high quality cut and also reduces HP thus lowering cost.
To sharpen blades, first remove them following the above instructions.
Place the blade in a vise and sharpen them by using a hand file or grinder. **Do not sharpen the blades to a sharp cutting edge.** The cutting edge should be between $^{1}/_{64}$" to $^{1}/_{32}$" to prevent excessive pitting and dulling of the blades. Sharpen both ends of the blade equally for balance and always maintain corners. Always keep all three blades sharpened equally in order to maintain balance.

CAUTION: Unbalanced or warped blades can cause damage to the mower and/or personal injury. Replace damaged blades before operating the mower. Sharpen both ends of the mower blades equally or until the blade is balanced.

4.04 - Belt Tension

Belt tension control
Check the belt tension by applying a force of 12-15 lb. pushing against the belt halfway between the pulleys. The belt deflection should be between $^{5}/_{16}$"-$^{3}/_{8}$".

Belt tension adjustment
The finishing mower has an automatic belt tensioner. The tension is created by a spring connecting a tensioner pulley to a fixed hitch plate with 3 positions **(see fig. 13)**. Upon

delivery, the spring is located in the first position. When the belt stretches after use, adjust the tension by relocating the spring in the other two holes. If the belt has stretched to the point that the belt is not tight enough even in the last hole it is necessary to replace the belt.

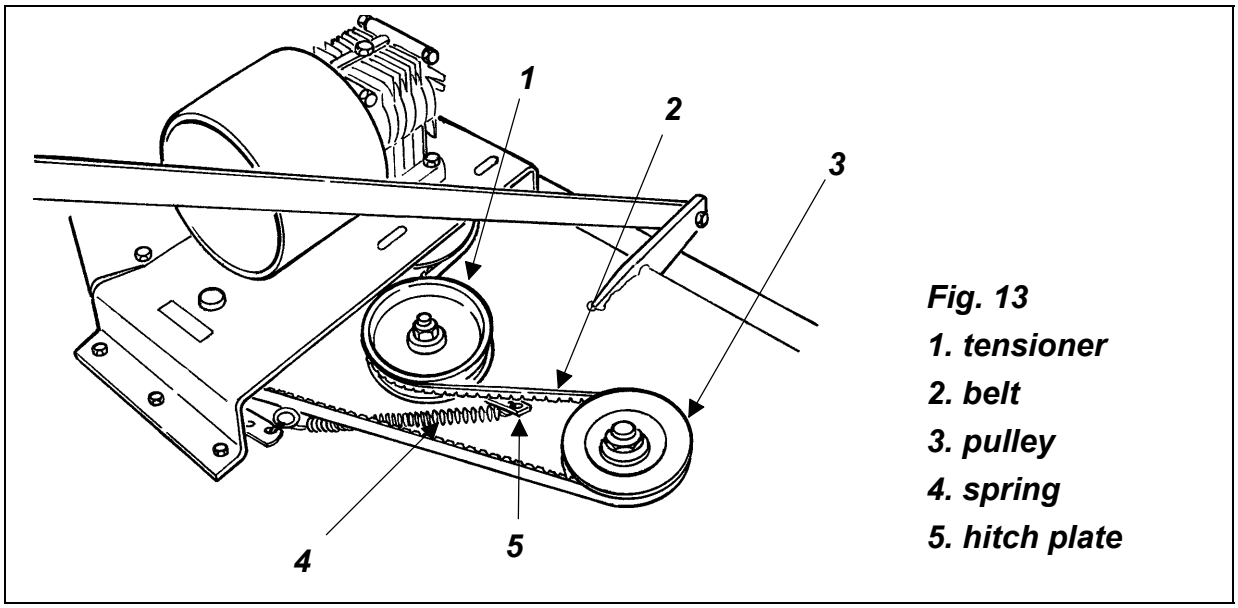


Fig. 13
1. tensioner
2. belt
3. pulley
4. spring
5. hitch plate

4.05 - Belt Replacement

If the belt has been stretched or damaged to the point where the proper tension can not be obtained it must be changed.

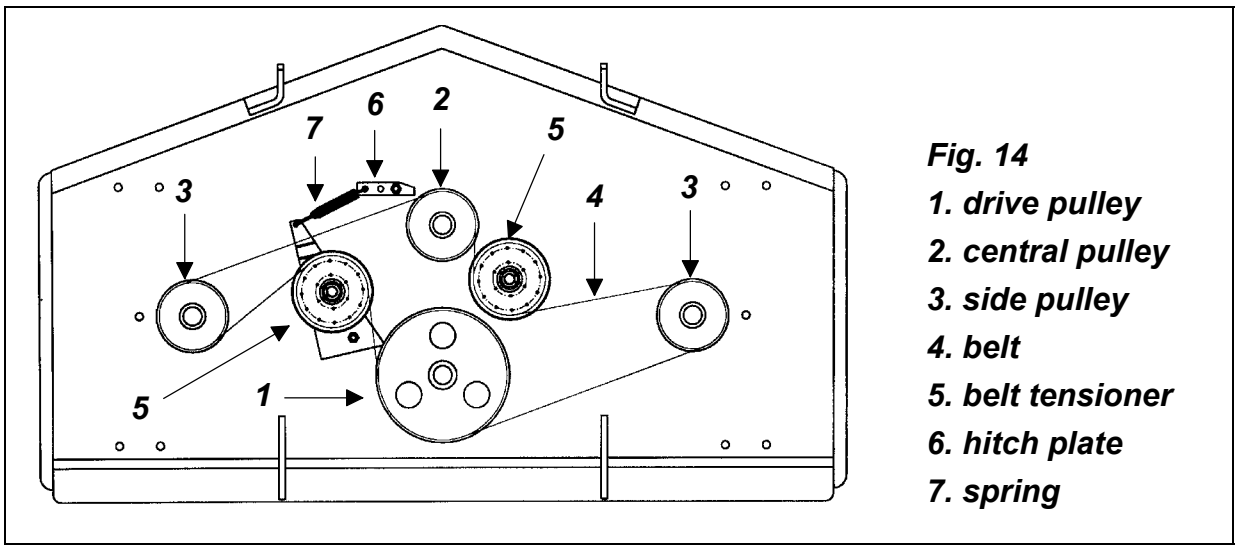


Fig. 14
1. drive pulley
2. central pulley
3. side pulley
4. belt
5. belt tensioner
6. hitch plate
7. spring

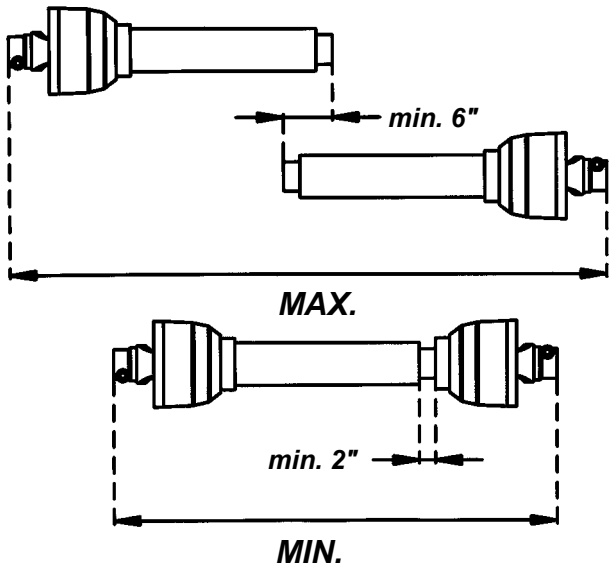
To replace the belt do the following:

1. Remove belt shields. Clean foreign material from the mower deck and belt area.
2. Release spring tensioner to loosen belt.
3. Loosen rear nuts holding central plate (do not remove them).
4. Remove front nuts holding central plate **(see fig. 13)**.
5. Lift the front of the central plate and remove old belt.
6. Replace new belt starting from the right spindle pulley **(see fig. 14)**.
7. Lower central plate.
8. Replace front nuts. Tighten front and rear nuts holding down central plate.
9. Replace spring tensioner.
10. Reinstall the belt shields.

4.06 - Driveline

DANGER: Only use the original driveline supplied with this mower, and always with the safety shielding.
Carefully read and file away the driveline operator's manual supplied by the manufacturer. The following does not substitute the information found in the driveline manual.

Fig. 15



In the collapsed position the driveline should be approximately 2" from bottoming out to prevent possible damage to the tractor or implement. When the PTO is in the maximum extended position, the ideal minimum overlap of the two halves should be approximately 6" **(see fig. 15)**.

If determined that the driveline is too long. Follow these procedures to adjust the length:

1. Separate the two driveline halves. Connect one half to the tractor PTO and the other half to the mower.
2. Raise and lower the mower with the 3 point hitch to find the position where the driveline is shortest. Hold the half shafts side by side and mark the desired length on the outer female tube guard leaving a $1^1/_2$" gap between the end of the guard tube and bell guard.
3. Cut off both guard tubes the same amount as marked in step 2.
4. Shorten both drive tubes the same amount as guard tubes.
5. De-burr and clean filings from drive tubes and apply grease to outside of inner telescoping tube.

Reassemble the driveline halves and connect to tractor and mower. Raise and lower mower again to be sure driveline does not bottom out in its shortest position and has a minimum overlap of 6" in the longest position.

CAUTION: Always work with the driveline as straight as possible. This will prolong its life and that of its components. It is advised not to work at an angle greater than 15 degrees.

4.07 - Transport

Before raising the mower for transport, the tractor top link must be adjusted so when lifted, the rear of the machine is higher than the front (the mower's nose is tilted downward). To do this, shorten the tractor top link until the top hitch plate is locked forward and no longer able to pivot. This will keep the mower locked in position and minimize the shaking and bouncing during transport which can damage the hitch or frame.
When raising the mower be sure the PTO driveline does not hit either the mower or the tractor. During transport the mower should not be lifted over 14"-16" from the ground.

CAUTION: Make sure PTO is disengaged and blades have stopped turning before raising mower to full transport position.
Do not tow tractor and mower behind other vehicles. Use a properly equipped trailer with heavy tie-downs for towing operations.

Before transporting:

1. Disengage PTO.
2. Shorten tractor top link until top hitch plate is locked.
3. Raise machine and lock rock shaft control lever.
4. Always select a safe ground speed that is appropriate for the terrain.
5. Beware of traffic on public roads. Install a SMV (Slow Moving Vehicle) sign when traveling on roads or streets.
6. Reduce ground speed when turning and take care that the mower does not strike obstacles such as trees, fences or buildings.

TABLE 1 - TORQUE SPECIFICATIONS

Diameter	Class 8.8		Class 10.9	
	N.m	lb.ft	N.m	lb.ft
M 8	25	18	35	26
M 10	50	37	70	52
M 12	90	66	125	92
M 14	140	103	200	148
M 16	215	155	305	225
M 18	295	217	420	309
M 20	420	302	590	438
When using locks, nuts, increasing torque values by 5%.				

TABLE 2 - FINISHING MOWER - TECHNICAL FEATURES

Rear Discharge, for tractors up to 30 HP, PTO 540 rpm, 3 point hitch cat. 1										
Model	Working width	Overall width	Weight lb.	Rotor rpm/min	Blades tip speed ft/min	# Blades	Cutting height	# Belts & type	# Wheels & size	Driveline $1\ ^{3}/_{8}$"
FM48	48"	51"	340	3037	13,188	3	1" - 4"	1 BX	4 - 8.4"x3.2"	ASAE 2nd. cat
FM60	60"	62"	375	2803	14,763	3	1" - 4"	1 BX	4 - 8.4"x3.2"	ASAE 2nd. cat
FM72	72"	74"	440	2278	14,566	3	1" - 4"	1 BX	4 - 8.4"x3.2"	ASAE 2nd. cat

5 - REPAIR PROCEDURES

CAUTION: All repair procedures must be done by authorized dealerships. It is not recommended that untrained individuals perform any repair work. The following operations are detailed for qualified personnel only.

5.01 - Gearbox

To remove the gearbox do the following:

1. Remove the belt[12] **(see fig. 13)**.
2. Remove the nut holding the pulley to the gearbox pinion shaft.
3. Remove the pulley.
4. Remove the nuts holding the gearbox to the central plate.
5. Remove the gearbox.

If it is necessary to replace any part on the inside of the gearbox, it is important to replace oil seals or gaskets to ensure a tight fit when reassembling.
To replace the gearbox, follow the above instructions in reverse order.

5.02 - Blade Spindle

To remove a blade spindle do the following:

1. Remove the belt[13].
2. Remove the nut holding the pulley to the spindle shaft **(see fig. 11)**.
3. Remove the blades[14].
4. Unbolt the bolts holding the rotor support to the mower deck.
5. If necessary remove and replace the bearings from the rotor using presses or extractors.
6. Reassemble in reverse order **ensuring that the nut securing the top pulley (see fig. 11) is tightened to 108 lb.ft.**

5.03 - Suggested Spare Parts

It is suggested that the following spare parts be kept on hand for the finishing mower at all times to prevent a minor problem from delaying work.

---

12 See section 4.05 - Belt Replacement.
13 See section 4.05 - Belt Replacement.
14 See section 4.03 - Blade Maintenance.

Description	Quantity
Blades	3
Blade bolts	3
Washers	3
Belts	1

5.04 - Storage

After seasonal use it is important to perform the following for prolonged storage:

1. Wash the mower carefully.
2. Inspect the mower and replace worn or damaged parts.
3. Tighten all hardware. Grease all areas indicated under Maintenance[15].
4. Loosen the belts if the mower is to be stored for an extended length of time.
5. Cover the mower from the elements in order to have it in perfect conditions for the start of the next season.

[15] See chapter 4 - Maintenance.

6 - TROUBLESHOOTING

WARNING: Be sure tractor engine is off, parking brake is locked, and key is removed before making any adjustments.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Uneven cutting.	Cup washer not between blade and bolt. Ground speed too fast. Blades need sharpening. Caster wheels uneven	Check washer location at all 3 spindles. Shift to lower gear. Sharpen blades. Adjust wheel position.
Blades turning but not cutting.	Direction of blades is wrong.	Blade should turn counter clockwise rotation when you face deck bottom. See Installing Blade section.
Belt slippage.	Lack of tension. Object clogging mower. Debris in pulleys.	Tighten belt. Remove object. Clean pulleys.
Mower vibrates.	Object wrapped around blade. Belt damaged.	Remove object. Replace belt.
Belt squeal.	Belt slipping.	Tighten belt.
Grass build up at exit.	Wet grass. Grass too high. Tractor rpm too slow.	Allow grass to dry. Raise mower, shift to lower gear, make two passes over grass. Mow grass high 1st pass, 2nd pass cut to desired height. Increase tractor rpm, check engine and PTO speeds.
Belts are tight when installing.	Wrong belt size. Installed belts incorrectly.	Check belt size. See Replacing Belts section.
Streaking conditions in swath.	Too wet to mow. Blades cannot cut grass pressed down by wheels. Dull blades. Blades worn down, preventing overlap.	Allow grass to dry. Maintain engine speed and shift to lower gear. Sharpen blade. See Sharpening Blades section. Change blades.
Cut grass windrows.	Ground speed too low. Tractor rpm too slow.	Increase ground speed. Increase tractor rpm, check engine and PTO speeds.

7 - PRE-DELIVERY CHECKLIST

To the dealer: Inspect the machine thoroughly after assembly to assure it is functioning properly before delivering it to the customer. The following checklist is a reminder of points to cover. Check off each item as it is found satisfactory or after proper adjustment is made.

- ☐ Gearbox oil level.
- ☐ Guards and shield properly fastened.
- ☐ Lubrication of grease fittings.
- ☐ All hardware properly tightened.
- ☐ All decals properly located and readable **(see fig. 4)**.
- ☐ Blades properly installed, blade bolts & nuts tightened.
- ☐ Overall condition (touch up scratches, clean and polish).
- ☐ Test run, check for excessive vibration or overheating of bearings.
- ☐ Operator's Manual.

Review the operator's manual with the customer. Explain the following:

- ☐ Warranty.
- ☐ Safe operation and service.
- ☐ Correct machine installation and operation.
- ☐ Daily and periodic lubrication, maintenance and inspections.
- ☐ Troubleshooting.
- ☐ Operational procedures and storage.
- ☐ Parts and service.
- ☐ Give customer the operator's manual and encourage the customer to read the manual carefully.

Model Number: _____ Serial Number: _____

Delivery Date: _____ Dealer's Signature: _____

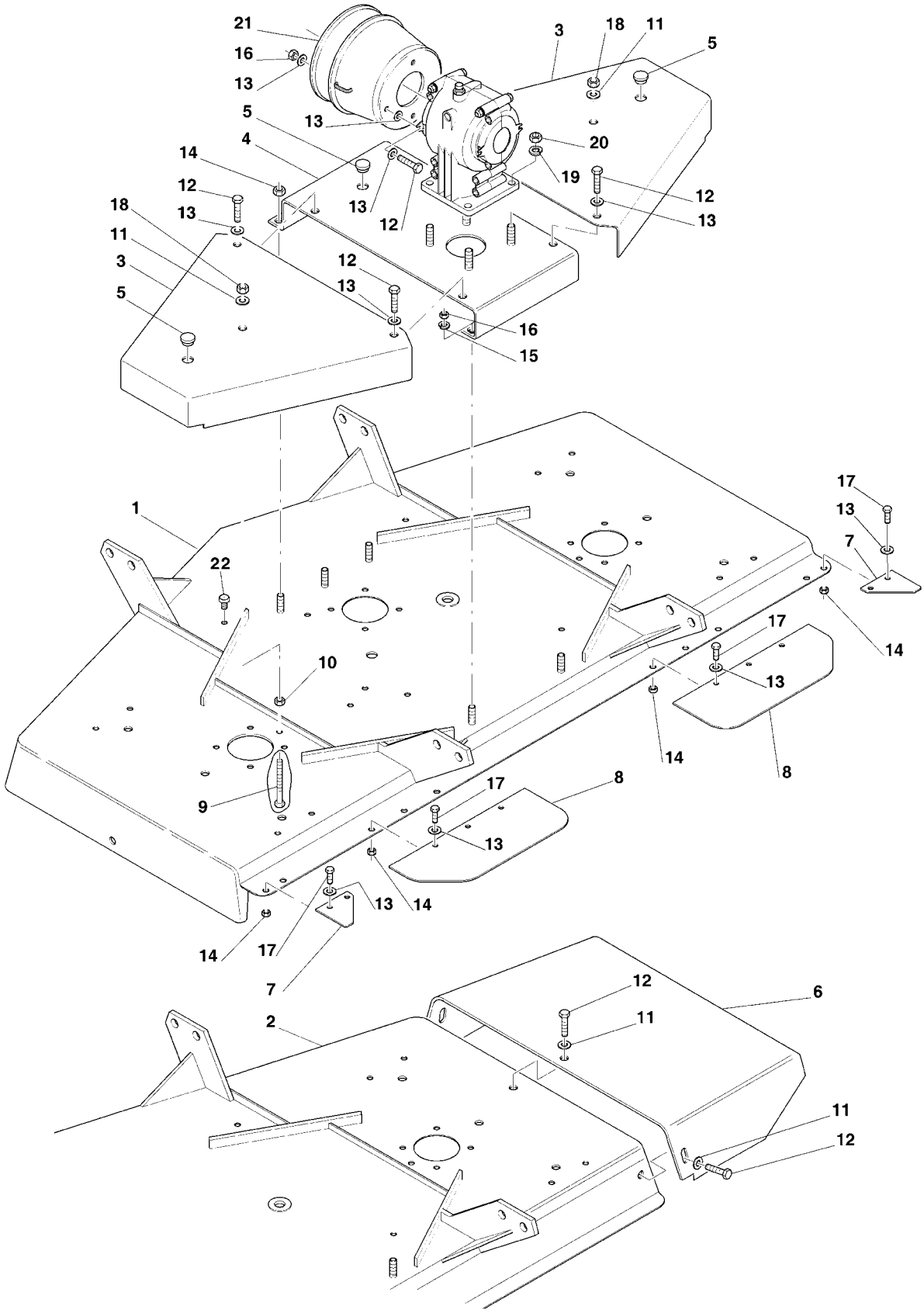
9 - PARTS MANUAL

Finishing Mower 48”, 60” & 72”

FM48

FM60

FM72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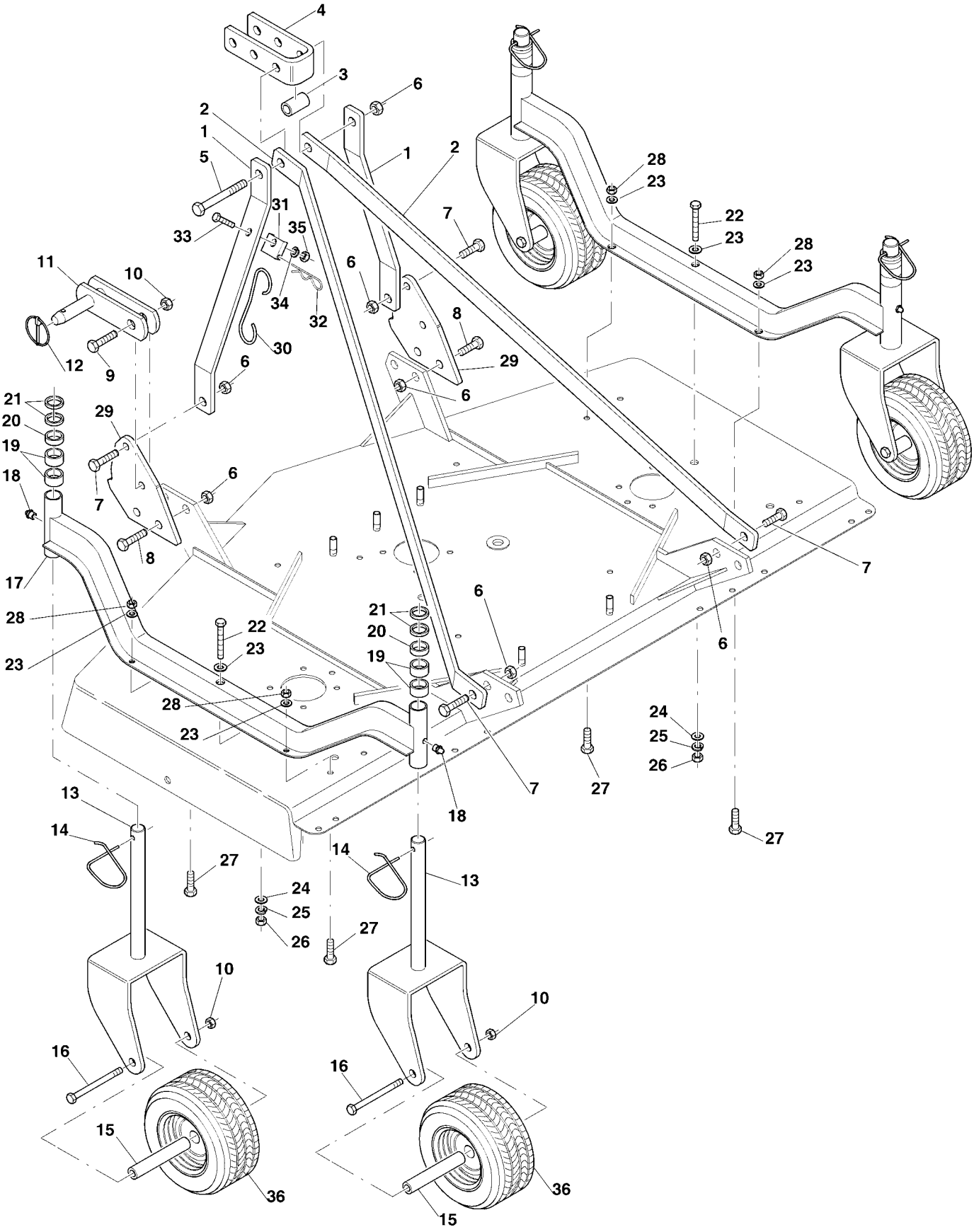
Ref.	Part #	Part Description	Qty.
1	015-1501P	Frame 48" Rear Discharge (Version B)	1
	025-1501P	Frame 60" Rear Discharge (Version B)	1
	035-1501P	Frame 72" Rear Discharge (Version B)	1
3	010-8817	Belt Shield 48" (Version A)	2
	020-8817	Belt Shield 60" (Version A)	2
	030-8817	Belt Shield 72" (Version A)	2
4	005-1581	Central Plate 48"	1
	005-1583	Central Plate 60"	1
	005-1585	Central Plate 72"	1
5	000-6647	Cap	3
6	020-8425	Deflector 60"	1
7	005-1858	Side Rear Protection 60"	2
	005-1859	Side Rear Protection 72"	2
8	005-1856	Central Rear Protection	2
9	000-8818	Bolt TE 10 x 110	2
10	001-4106	Nut D. 10	2
11	003-0157	Flat Waher D. 10	-
12	003-3176	Bolt TE 10 x 110	-
13	000-2034	Flat Washer D. 10	-
14	003-0156	Nut D. 10	-
15	000-1280	Spring Washer D. 10	2
16	000-1279	Nut D. 10	4
17	000-6349	Bolt TE 10 x 110	-
18	001-5237	Nut D. 10	2
19	000-1077	Spring Washer D. 12	4
20	000-3038	Nut D. 12	4
21	000-8663	Shaft Protection (EC Only)	1
22	005-1570	Cap	-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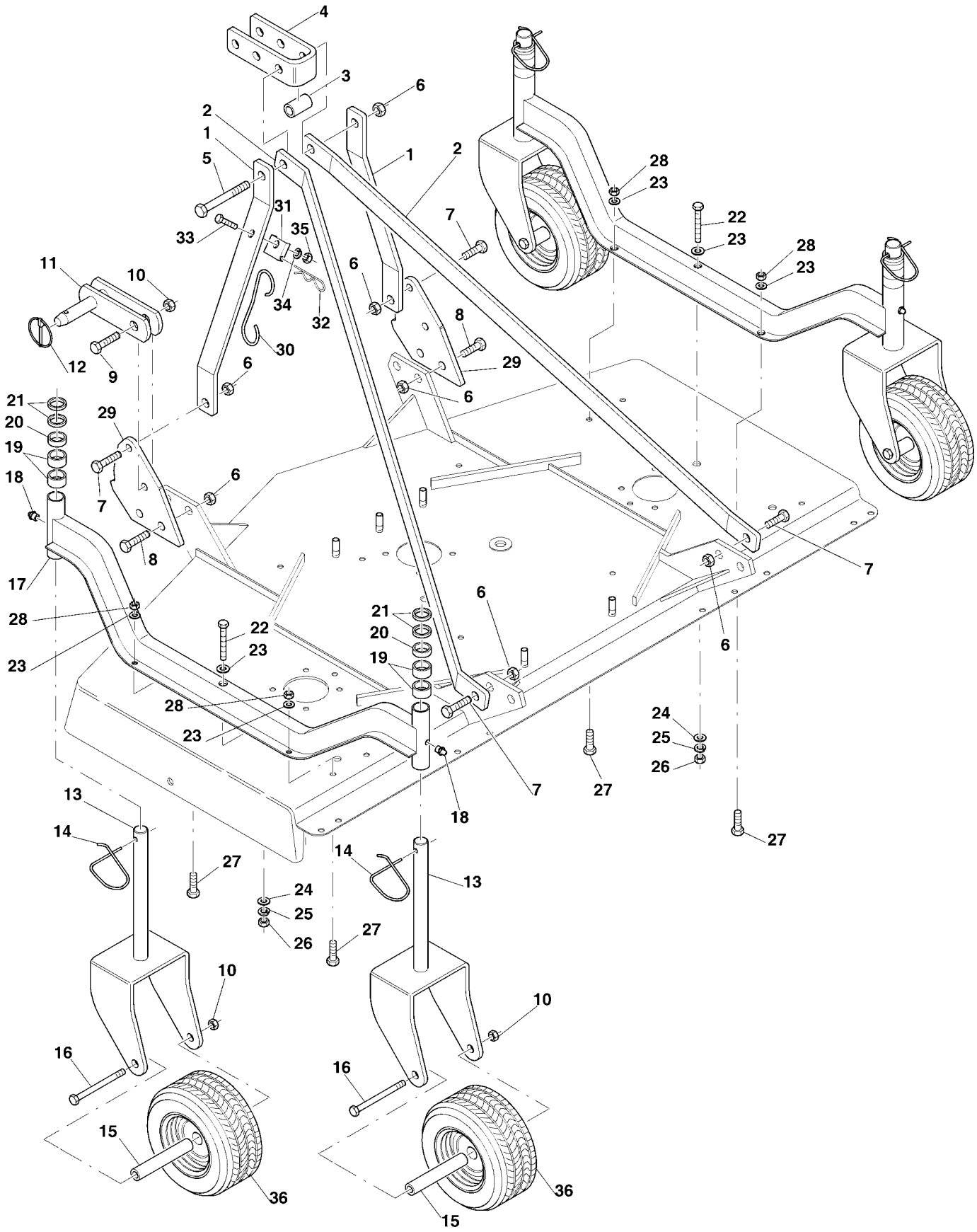
Ref.	Part #	Part Description	Qty.
1	005-6511	Top Hitch Support (Version A)	2
2	015-6521	Top Hitch Arm 48” (Version A)	2
	025-6521	Top Hitch Arm 60” (Version A)	2
	035-6521	Top Hitch Arm 72” (Version A)	2
3	000-6829	Spacer since 1/2007	1
4	000-6828	Upper Plate	1
5	000-6891	Bolt TE 16 x 140	1
6	000-5581	Nut D. 16	9
7	003-2687	Bolt TE 16 x 40	4
8	000-6578	Bolt TE 16 x 45	4
9	003-7349	Bolt TE 14 x 45	2
10	003-0358	Nut D. 14	6
11	005-6525	Hitch Block since 1/3/2005	2
12	001-8266	Lynch Pin	2
13	000-8785	Wheel Yoke	4
14	000-6610	Cotter Pin	4
15	000-8528	Spacer	4
16	000-6615	Bolt TE 14 x 140	4
17	010-8761	Wheel Arm 48”	2
	020-8761	Wheel Arm 60”	2
	030-8761	Wheel Arm 72”	2
18	000-1065	Grease Fitting	4
19	000-6586	Spacer 1”	8
20	000-6587	Spacer 1/2”	4
21	000-6589	Spacer 1/4”	8
22	0026185	Bolt TE 10 x 90	2
23	003-0157	Flat Washer D. 10	10
24	000-2034	Flat Washer D. 10	2
25	000-1280	Spring Washer D. 10	2
26	000-1279	Nut D. 10	2
27	000-1278	Bolt TE 10 x 30	8
28	003-0156	Nut D. 10	8
29	005-6523	Linking Plate	2
30	002-2433	Driveline Hook (EC Only)	1
31	002-2435	Hook Support (EC Only)	1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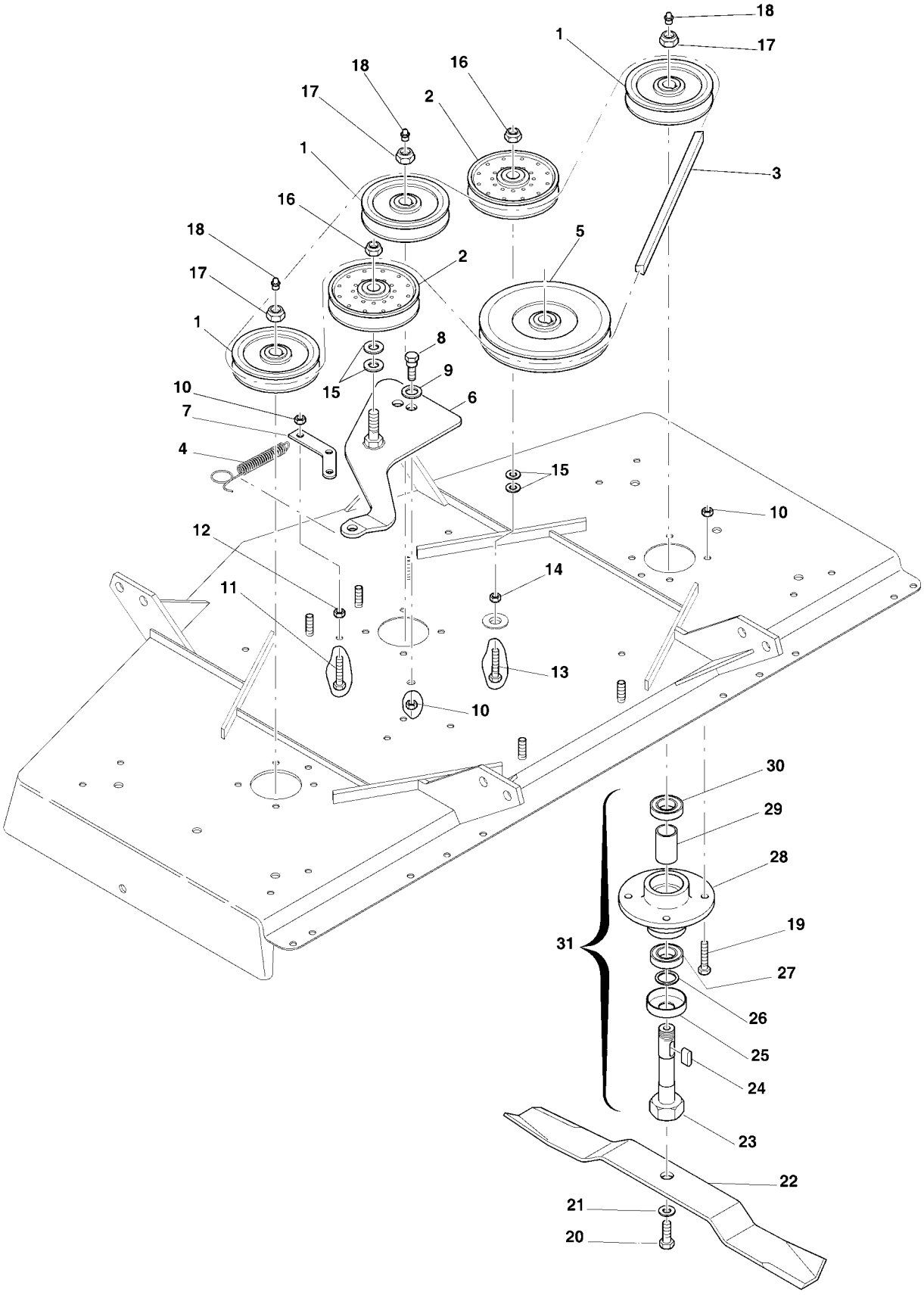
Ref.	Part #	Part Description	Qty.
32	005-4422	Cotter Pin D. 2 (EC Only)	1
33	009-1446	Bolt TE 8 x 25	1
34	000-3144	Spring Washer D. 8	1
35	000-1806	Nut D. 8	1
36	000-8526	Hard Tire	4
	000-8797	Air Tire	4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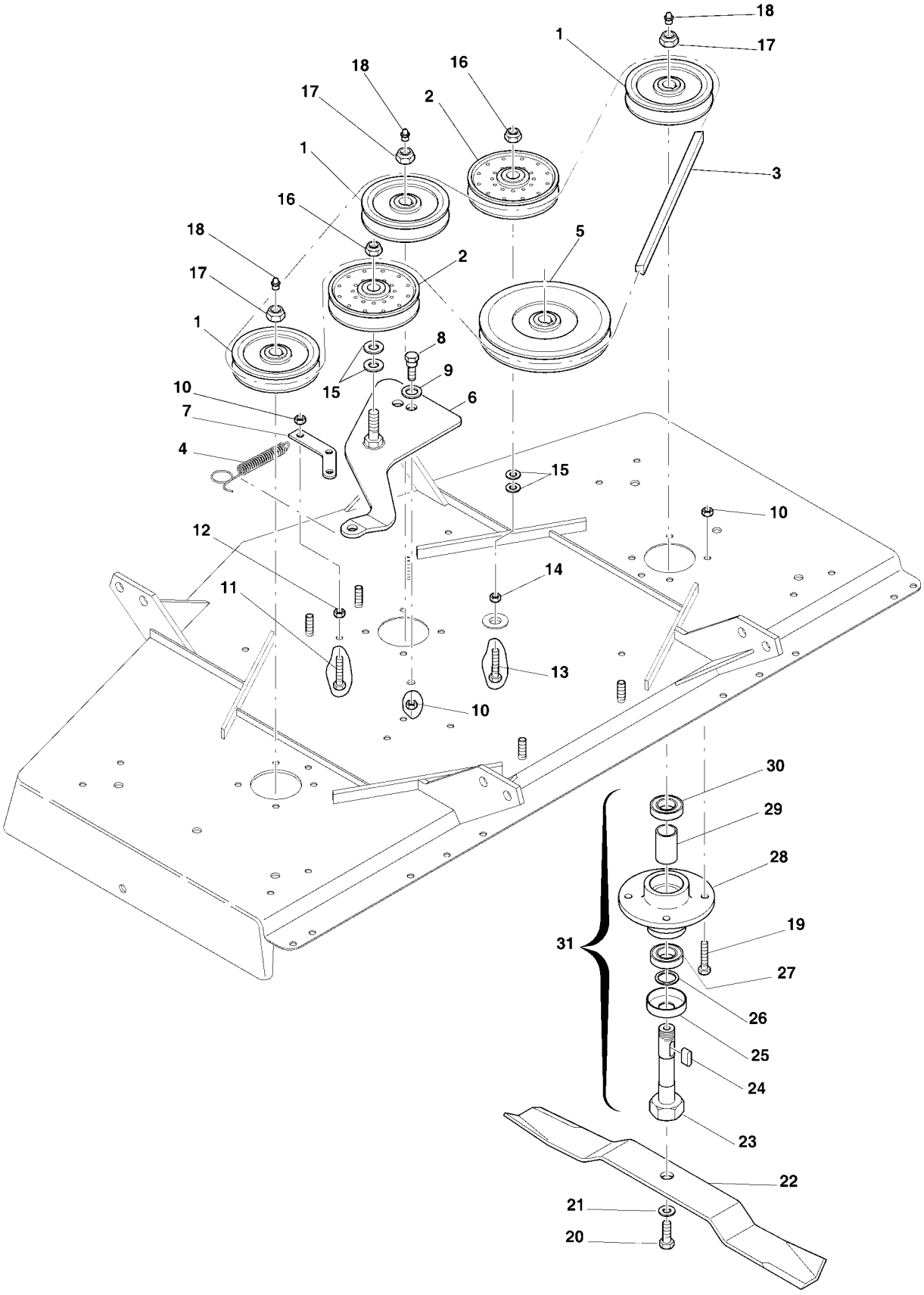
Ref.	Part #	Part Description	Qty.
1	000-8531	Pulley 120 x 1 48"	3
	000-8666	Pulley 130 x 1 60"	3
	000-8881	Pulley 160 x 1 72"	3
2	000-8561	Pulley Belt Tensioner	2
3	000-8630	Belt BX 98 48"	1
	000-8670	Belt BX 112 60"	1
	000-8950	Belt BX 140 72"	1
4	005-1740	Spring since 04/2007	1
5	000-8623	Pulley 250 x 1	1
6	005-1741	Belt Tensioner Support 48" since 04/2006	1
	005-1745	Belt Tensioner 60" & 72" since 04/2006	1
7	000-8571	Hitch Plate 48"	1
	005-1755	Hitch Plate 60" since 04/2006	1
	005-1757	Hitch Plate 72" since 04/2006	1
8	009-1281	Bolt TE 10 x 35	1
	005-1751	Belt Tensioner Fixing Bolt since 04/2006	1
9	005-1753	Flat Washer D. 16 since 04/2006	1
10	003-0156	Nut D. 10	14
11	009-1281	Bolt TE 10 x 35	1
12	000-1279	Nut D. 10	1
13	000-8576	Bolt TE 20 x 65	1
14	000-5508	Nut D. 20	1
15	004-6555	Flat Washer D. 20	4
16	000-5507	Nut D. 20	2
17	000-6698	Nut D. 25	3
18	002-9036	Grease Fitting	3
19	000-1278	Bolt TE 10 x 30	12
20	000-8559	Blade Bolt	3
21	000-8560	Disc Spring	3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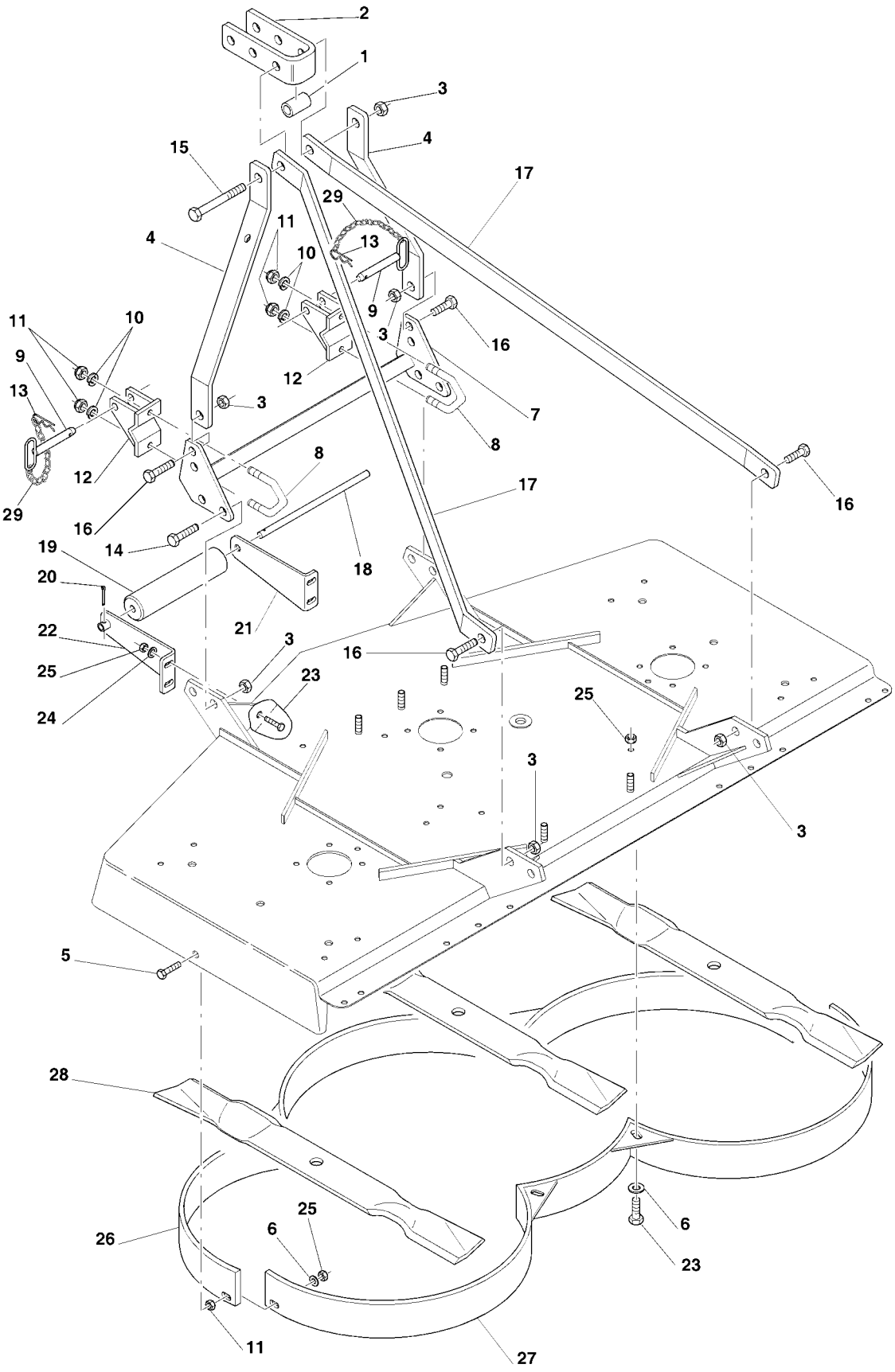
Ref.	Part #	Part Description	Qty.
22	000-6795	Standard Blade 48"	3
	000-6641	Standard Blade 60"	3
	000-6845	Standard Blade 72"	3
	000-6795M	Mulching Blade 48"	3
	000-6641M	Mulching Blade 60"	3
	000-6845M	Mulching Blade 72"	3
	000-6795B	Highlift Blade 48"	3
	000-6641B	Highlift Blade 60"	3
	000-6845B	Highlift Blade 72"	3
	000-6795F	Flat Blade 48"	3
	000-6641F	Flat Blade 60"	3
	000-6845F	Flat Blade 72"	3
23	000-8557	Spindle Shaft	3
24	000-6639	Key 8x7x25	3
25	000-6636	Cover	3
26	000-6606	Spring Washer	3
27	000-6626	Bearing 6205-ZZ	3
28	000-8538	Spindle	3
29	000-8536	Spacer	3
30	000-6634	Bearing 6205-Z	3
31	000-8533	Spindle Assembly	-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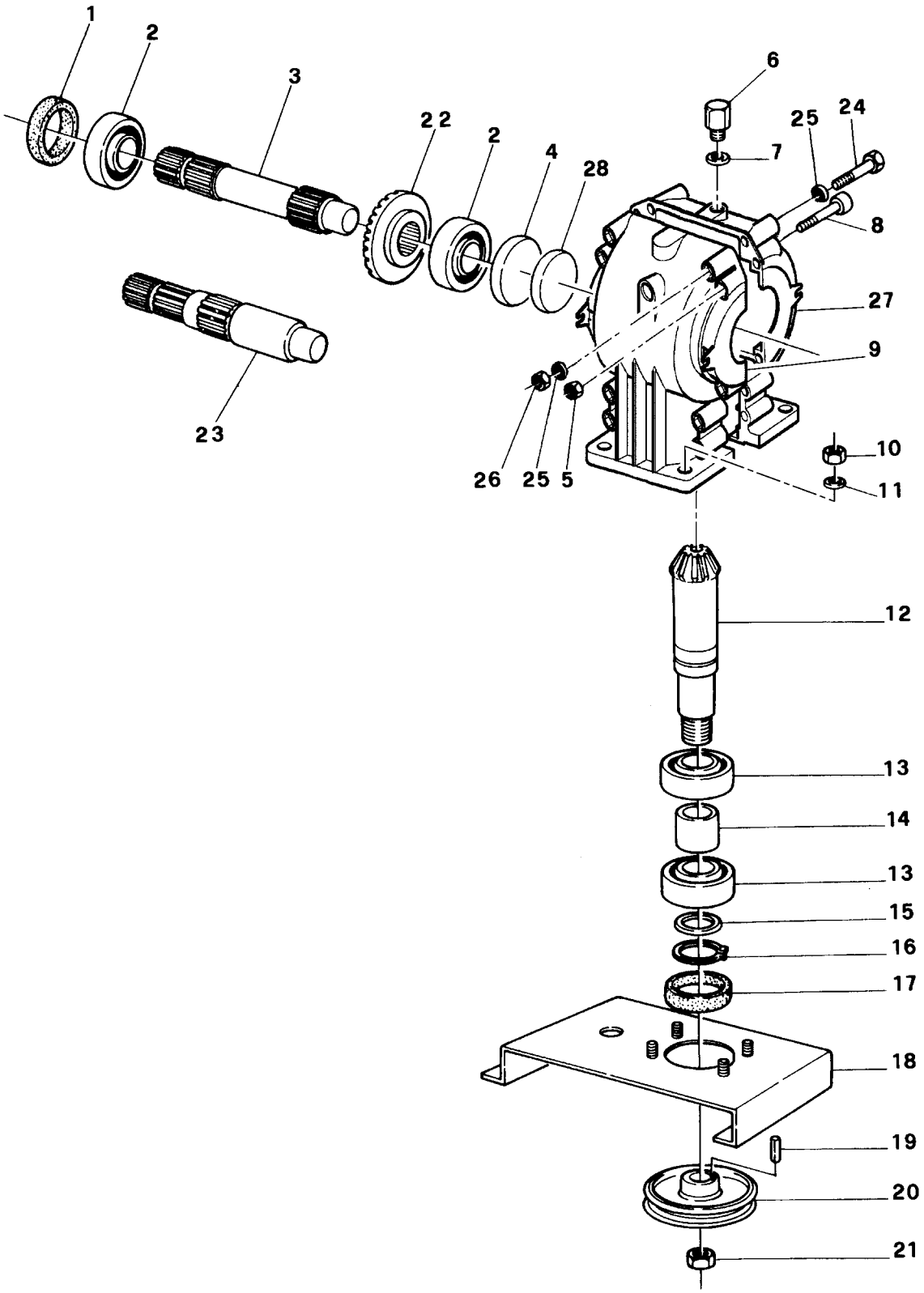
Ref.	Part #	Part Description	Qty.
1	000-6829	Spacer	1
2	000-6828	Upper Plate	1
3	000-5581	Nut D.16	9
4	005-6511	Top Hitch Support	2
5	009-1281	Bolt TE 10 x 35	2
6	003-0157	Flat Washer D. 10	-
7	005-1865	Tractor Hitch Support	1
8	001-1251	U Bolt	2
9	000-8501	Hitch Pin	2
10	000-1077	Spring Waher D. 12	4
11	000-3038	Nut D. 12	6
12	000-6897	Lower Hitch Arm	2
13	009-1507	Cotter Pin	2
14	000-6578	Bolt TE 16 x 45	4
15	000-6891	Bolt TE 16 x 140	1
16	003-2687	Bolt TE 16 x 40	4
17	010-8832	Top Hitch Arm 48"	2
	015-6521	Top Hitch Arm 48" since 01/03/2005	2
	020-8832	Top Hitch Arm 60"	2
	025-6521	Top Hitch Arm 60" since 01/03/2005	2
	030-8832	Top Hitch Arm 72"	2
	035-6521	Top Hitch Arm 72" since 01/03/2005	2
18	000-8929	Roller Pin	1
19	006-7358	Front Roller	1
20	011-2087	Cotter Pin D. 4x50	1
21	000-8923	Right Roller Support	1
22	020-8924	Left Roller Support	1
23	000-6349	Bolt TE 10 x 20	-
24	000-2034	Flat Washer D. 10	4
25	003-0156	Nut D. 10	-
26	000-8755	Baffling 48"	1
	011-5824	Baffling 60"	1
	000-8759	Baffling 72"	1
27	000-8756	Baffling 48"	1
	011-5825	Baffling 60"	1
	000-8760	Baffling 72"	1
28	000-6795M	Mulching Blade 48"	3
	000-6641M	Mulching Blade 60"	3
	000-6845M	Mulching Blade 72"	3
29	000-8506	Chain	2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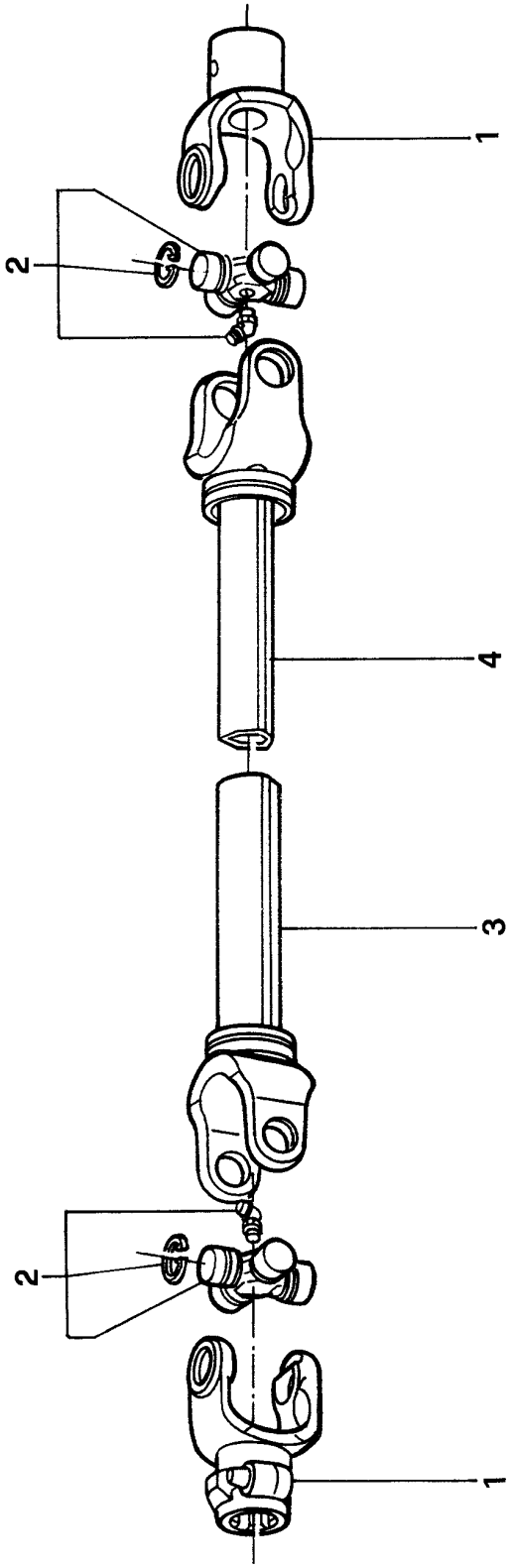
Ref.	Part #	Part Description	Qty.
1	001-0192	Oil Seal 40.68 .10	1
2	001-2149	Bearing 6208	2
3	000-8892	Input Shaft	1
4	000-8609	Cover	1
5	000-6513	Nut M8	8
6	001-0727	Breather Cap	1
7	000-8601	Gasket	1
8	001-0173	Bolt TCEI 8 x 50	8
9	005-6681	Gearbox Housing Without Hole	2
10	000-3038	Nut M12	4
11	000-1077	Lock Washer M12	4
12	005-0192	Pinion Gear	1
13	002-5332	Bearing 6207	2
14	001-0196	Spacer	1
15	003-4196	Spacer Washer	1
16	004-2122	Snap Ring Outer M36	1
17	000-2295	Oil Seal 35.62.10	1
18	020-8430	Central Plate 60"	1
	030-8430	Central Plate 72"	1
19	000-6688	Key 7x8x35	1
20	000-8623	Pulley SPB 250x1	1
21	000-6698	Nut M25	1
22	000-8893	Ring Gear	1
23	005-1187	Input Shaft with CCW Rotation	1
24	001-5263	Bolt 10x120	2
25	000-2034	Flat Washer M10	4
26	003-0156	Nut M10	2
	050-0668	Gearbox Complete	1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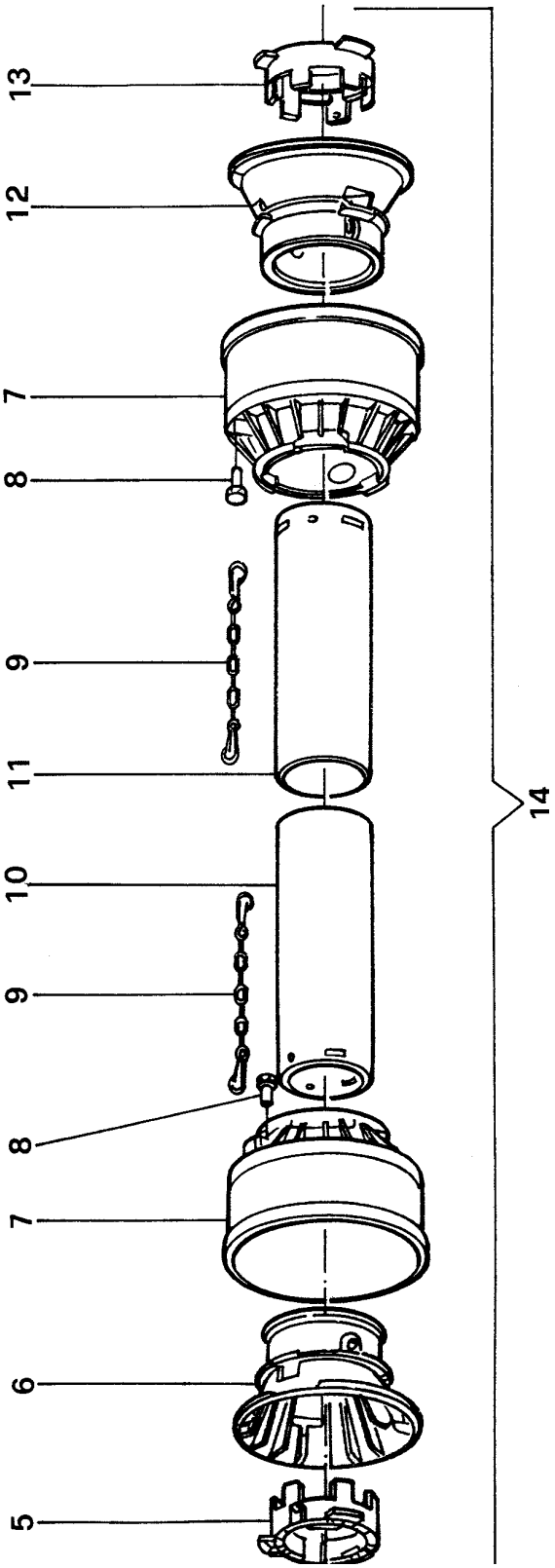
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Ref.	Part #	Part Description	Qty.
1	022-001E	Yoke Assembly (Tractor End)	1
2	012-130E	Cross Assembly	2
3	503-350B	Outer Tube with Yoke 4'	1
	503-339B	Outer Tube with Yoke 5'	1
	503-345B	Outer Tube with Yoke 6'	1
4	503-318B	Outer Fastener Ring	1
5	503-319B	Inner Fastener Ring	1
6	503-351B	Inner Tube with Yoke 4'	1
	503-340B	Inner Tube with Yoke 5'	1
	503-346B	Inner Tube with Yoke 6'	1
8	503-322B	Tube Bearing Outer	1
9	503-323B	Outer tube Rigid Cone	1
10	503-341B	Soft Cone	1
11	503-325B	Pin for Stop Rotation	2
12	502-889B	Anti rotation Chain	2
13	503-352B	Outer Tube 4'	1
	503-342B	Outer Tube 5'	1
	503-347B	Outer Tube 6'	1
14	503-353B	Inner Tube 4'	1
	503-343B	Inner Tube 5'	1
	503-348B	Inner Tube 6'	1
15	503-324B	Soft Cone	1
16	503-328B	Inner Tube Rigid Cone	1
17	503-329B	Tube Bearing Inner	1
18	503-354B	Shield Complete 4'	1
	503-344B	Shield Complete 5'	1
	503-349B	Shield Complete 6'	1
	948-814B	PTO Complete 4'	1
	948-815B	PTO Complete 5'	1
	948-816B	PTO Complete 6'	1

Finishing Mower 48”, 60” & 72”

FM48, FM60 & FM72

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